

Form PTO-1449 U.S. Department of Commerce
(REV. 2-82) Patent and Trademark Office

Attorney Docket No. BC.P-005USNP
Serial No. 09/071,242 09/237,711

INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(Use several sheets if necessary)

Applicant Withers et al.

Filing Date 6/12/98 Group 1652

U.S. PATENT DOCUMENTS

*Exam. Init.	Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate

FOREIGN PATENT DOCUMENT

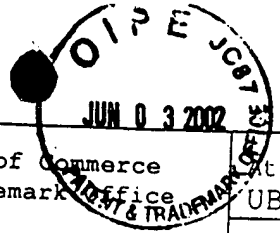
	Document No.	Date	Country	Class	SubClass	Translation Yes No
<u>21</u>	0 2 2 6 5 6 3	6/87	EP	—	—	
<u>22</u>	8 7/ 0 5 9 3 6	10/87	PCT	—	—	
<u>23</u>	8 9/ 0 9 2 7 5	10/89	PCT	—	—	

OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)

<u>24</u>		Withers et al., "Mechanistic Consequences of Mutation of the Active Site Nucleophile GLU 358 in Agrobacterium β -Glucosidase" <i>Biochemistry</i> 31: 9979-9985 (1992).
<u>25</u>		Trimbur et al., A β -Glucosidase from an Agrobacterium sp.: Structure and Biochemistry" in <i>ACS Symposium Series</i> (1992) pp 42-55.
<u>26</u>		Gebler et al., "Substrate-Induced Inactivation of a Crippled β -Glucosidase Mutant: Identification of the labeled Amino Acid and Mutagenic Analysis of Its Role", <i>Biochemistry</i> 34: 14547-14553 (1995).
<u>27</u>	<input checked="" type="checkbox"/>	Wang et al., "Identifictaion of the Acid/Base catalyst in Agrobacterium faecalis β -glucosidase by knietic analysis of mutants" <i>Biochemistry</i> 34: 14454-14562 (1995).
<u>28</u>		Wang et al., "Substrate-assisted Catalysis in Glycosidases" <i>J. Amer. Chem. Soc.</i> 117: 10137-1-138 (1995).

ner E. Slobodyousky Date Considered 8/15/02

Initial citation considered, whether or not citation is in conformance with MPEP 609; line through citation if not in conformance and not considered. Include copy of this form next communication to applicant.



Form PTO-1449 U.S. Department of Commerce
(REV. 2-82) Patent and Trademark Office

Atty. Docket No.
UBC.P-005USNP

Serial No. 09/837,711
09/091,272

INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

Applicant
Withers et al.

Filing Date
June 12, 1998

Group 1452

(Use several sheets if necessary)

81

Witt et al., "6-Phospho- β -galactosidases of Gram Positive and 6-phospho- β -glucosidase B of Gram-Negative bacteria: comparison of structure and function by kinetic and immunological methods and mutagenesis of the lacG gene of Staphylococcus aureus" *Protein Engineering* 6: 913-920 (1993).

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Nikolova et al., "Transglycosylation by Wild Type and Mutants of a β -1,4-Glycosidase from *Cellulomonas fimi* (Cex) for synthesis of Oligosaccharides", *Annals NY Acad. Sci.* 799: 19-25 (1996).

Examiner E. Slobodyansky Date Considered 8/15/02

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City. Docket No.
UBC. P-005USNP

Serial No. 09/837,711
09/091,272

Applicant
Withers et al.

Filing Date
June 12, 1998

Group 1652

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FOREIGN PATENT DOCUMENT															
		Document No.							Date	Country	Class	SubClass	<u>Translation</u> Yes No		
EJ		9	5/	1	8	2	3	2	7/95	PCT	-	-			
EI		9	5/	1	8	8	6	4	7/95	PCT	-	-			
EJ		9	4/	2	9	4	7	7	12/94	PCT	-	-			

OTHER DOCUMENTS (including Author Title)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	89/091,272 <i>09/881, 111</i>
Filing Date	6/12/98
First Named Inventor	Withers
Group Art Unit	<i>1652</i>
Examiner Name	
Attorney Docket Number	UBCP005USNP

Sheet	4	of	5
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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Examiner
Signature

8. Slovanyuk

Date	
Considered	

8/18/02

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

5

of

5

Complete if Known

Application Number

09/001,272

Filing Date

6/12/98

First Named Inventor

Withers

Group Art Unit

1652

Examiner Name

Attorney Docket Number

UBCP005USNP

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
EL		WANG, et al. (1994) "Changing Enzymic Reaction Mechanisms by Mutagenesis: Conversion of a Retaining Glucosidase to an Inverting Enzyme", J. Am. Chem. Soc. 116:11594-11595.	
EL		SVENSSON, (1988) FEBS Letters 230:72-76.	
EL		NAGASHIMA, et al. (1992) Biosci. Biotech. Biochem. 56:207-210.	

Examiner Signature

E. Stoboyan

Date

Considered

8/15/02

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